

**MAIN FEATURES**

- 1200 TONNES LIFTING CAPACITY ON FOUR LIFTING UNITS
- 300 TONNES LIFTING CAPACITY PER TELESCOPIC LIFTING UNIT
- HIGH HORIZONTAL LOAD CAPACITY
- ADJUSTABLE TRACK WIDTH FOR INCREASED STABILITY
- TRACKS CAN BE AT DIFFERENT LEVELS
- CENTRAL WIRELESS CONTROL OF ALL FUNCTIONS
- ACCURATE ADJUSTMENT OF THE LOAD POSITION TO +/-1mm IN ALL DIRECTIONS
- ALL COMPONENTS SUBJECT TO STATIC TEST AT 125% OF SWL AND DYNAMIC TESTS OF ALL FUNCTIONS AT 110% OF SWL IN ACCORDANCE WITH APPROPRIATE EUROPEAN DIRECTIVES
- COMPLETE DL-TLG1200 SYSTEM CE MARKED IN ACCORDANCE WITH APPROPRIATE EUROPEAN DIRECTIVES
- ALL COMPONENTS SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS

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**NOTES**

**SPECIFICATION**  
DL-TLG1200, 4-POINT LIFT SYSTEM

- MAXIMUM SAFE WORKING LOAD (SWL) AT TOP OF TELESCOPIC CYLINDERS  
STAGE 1 = 1200 TONNES @ 145 BAR WORKING PRESSURE  
STAGE 2 = 780 TONNES @ 145 BAR WORKING PRESSURE  
STAGE 3 = 472 TONNES @ 145 BAR WORKING PRESSURE  
SEE DRAWINGS DL-TLG1200-005-01 AND 02 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS
- STATIC TEST LOAD = 1.25 x SWL + MAXIMUM HORIZONTAL LOAD (TESTS CARRIED OUT AT FULL EXTENSION FOR EACH TELESCOPIC CYLINDER STAGE)
- DYNAMIC TEST LOAD = 1.10 x SWL (TESTS CARRIED OUT FOR EACH TELESCOPIC CYLINDER STAGE AND FOR ALL FUNCTIONS)
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION (SEE OPERATION AND MAINTENANCE MANUAL FOR DETAILS).
- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/- 1%
- MAXIMUM WHEEL LOAD = 78 TONNES
- LIFTING AND LOWERING SPEED OF TELESCOPIC CYLINDER = 0.5 m/minute (FAST) AND 0.1 m/minute (SLOW) - CONSTANT FOR ALL TELESCOPIC CYLINDER STAGES
- LONGITUDINAL MOVEMENT SPEED OF DL-TLG1200 LIFTING UNITS = 3.0 m/minute (FAST) AND 1.0 m/minute (SLOW)
- TRANSVERSE MOVEMENT SPEED OF DL-TLG1200 POWERED TROLLEYS = 0.5 m/minute
- POWER SUPPLY = 380-420 VOLTS AT 50 Hz OR 440-480 VOLTS AT 60 Hz, 3 PHASE + EARTH
- MAXIMUM POWER CONSUMPTION = 30 kW RUNNING PER DL-TLG1200 LIFTING UNIT
- CONTROL FOR ALL FUNCTIONS = CENTRAL WIRELESS CONTROL CONSOLE OR CONTROL PANEL AT THE CENTRAL CONTROL UNIT OR LOCAL CONTROL PANEL AT EACH DL-TLG1200 LIFTING UNIT
- OPERATING TEMPERATURE = -20 TO +45 °C (SUBJECT TO HYDRAULIC OIL GRADE USED)
- ALL COMPONENTS OF DL-TLG1200 SYSTEM SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS.

DL-TLG1200 HEAD BEAM TO SUIT TRACK CENTRES UP TO 11.2m SEE DRGS DL-TLG1200-003-01 & 02

2 No. DL-TLG1200 POWERED TROLLEYS PER HEAD BEAM WITH CHAIN DRIVE FOR SECURE LATERAL MOVEMENT. SAFE WORKING LOAD 300 TONNES PER UNIT SEE DRG DL-TLG1200-003-01

POWER AND CONTROL CABLES TO DL-TLG1200 LIFTING UNITS (BY DLT)

CENTRAL CONTROL UNIT (BY DLT) COMPRISING POWER DISTRIBUTION CABINET AND PLC CABINET

POWER IN (BY OTHERS) 120kW MAX RUNNING

DL-TLG1200 STANDARD TRACK SECTIONS AVAILABLE IN 2.8m AND 5.6m LENGTHS SEE DRG DL-TLG1200-004

WIRELESS CONTROL CONSOLE LINKED TO CENTRAL CONTROL UNIT

4 No. DL-TLG1200 LIFTING UNITS EACH WITH 3 STAGE TELESCOPIC CYLINDER. SAFE WORKING LOAD 300, 195 AND 118 TONNES PER UNIT FOR TELESCOPIC CYLINDER STAGES 1, 2 AND 3 SEE DRG DL-TLG1200-002

**NOTE:** HEAD BEAMS WITH POWERED TROLLEYS SHOWN. HEAD BEAMS WITH STATIC HANGERS AVAILABLE. SEE DRG DL-TLG1200-003-02

TRANSVERSE  
LONGITUDINAL

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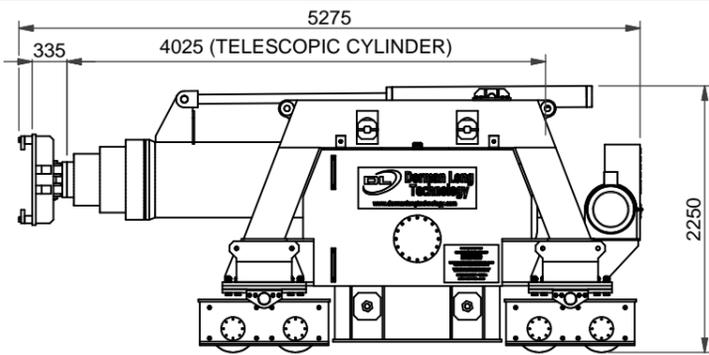
Project  
DL-TLG1200  
TELESCOPIC LIFTING GANTRY

Drawing Title  
4 POINT TELESCOPIC LIFTING GANTRY  
GENERAL ARRANGEMENT AND SPECIFICATION

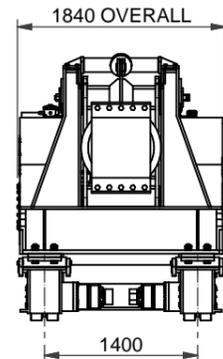
Design Eng: JM	Checking Eng: PD
Drawn by: AW	Project Eng: SAB

Scal (At A3)	AS SHOWN	Drawing Status	INFORMATION
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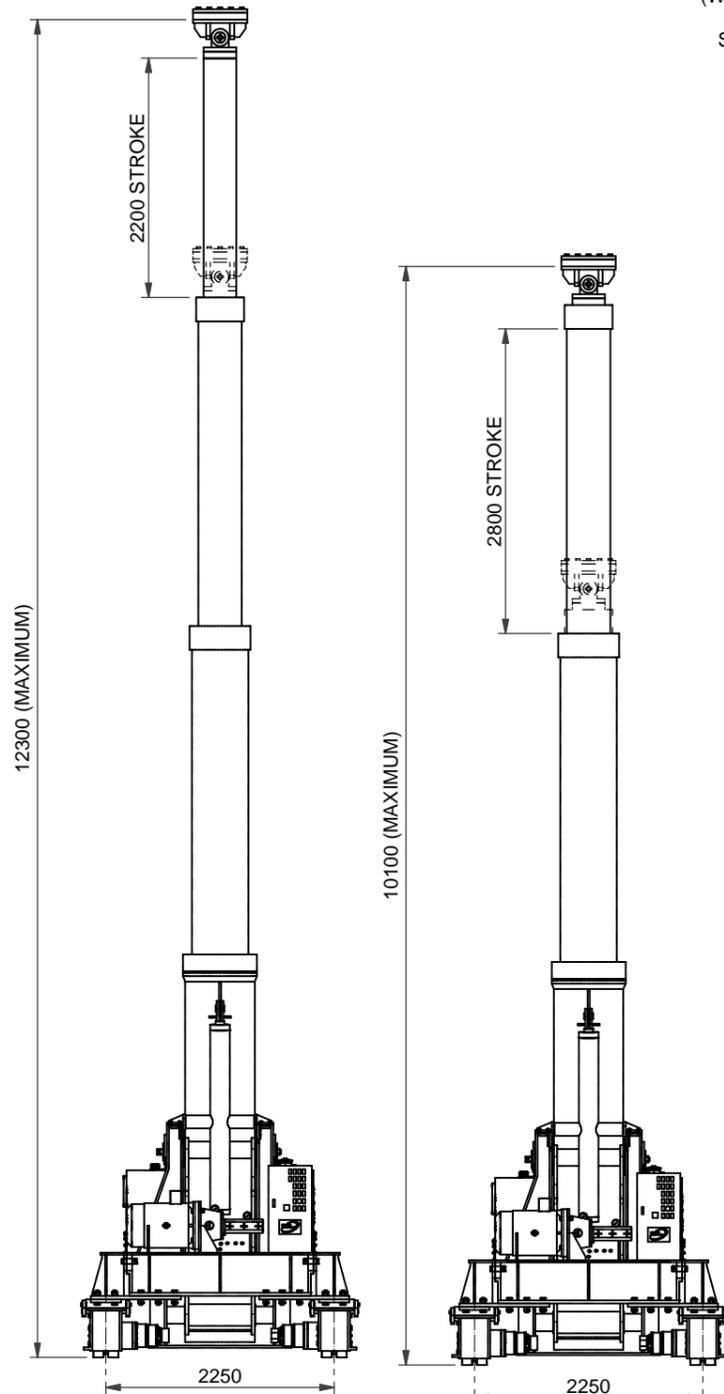
Original Drawing size: A3	Drawing No.	DL-TLG1200-001	Rev.	N1
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**DIMENSIONS FOR TRANSPORT**



COMPLETE DL-TLG1200 LIFTING UNIT (WITHOUT BOGIE EXTENSION PIECES) SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINER.

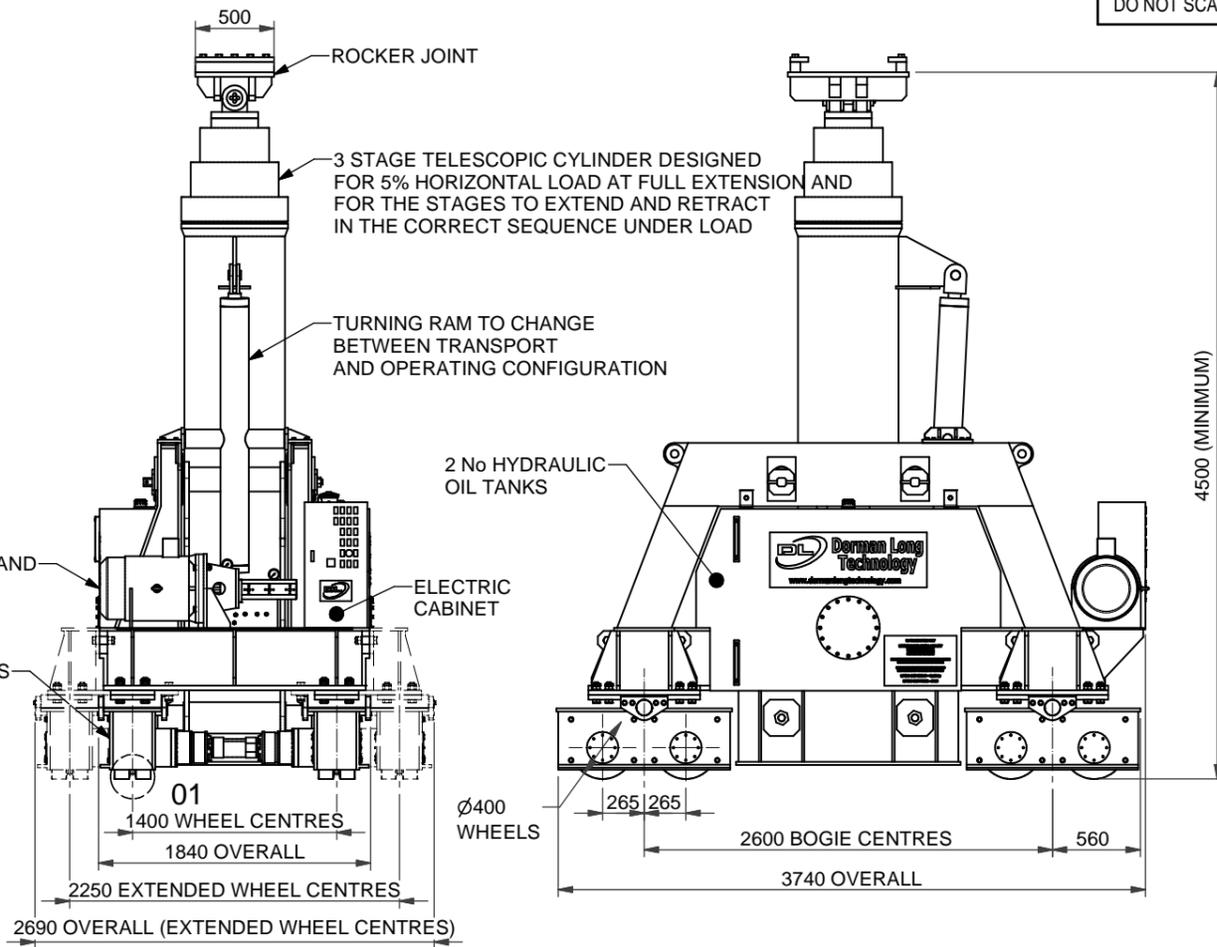


**STAGE 3**  
CAPACITY: 118 Tonnes (EACH UNIT)  
MAX % TIPPING = 63%

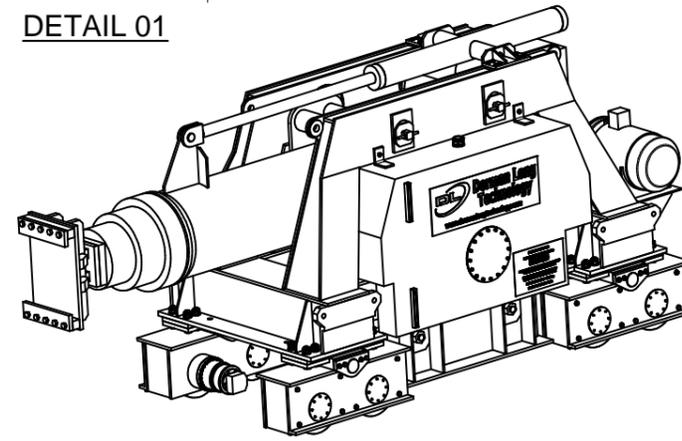
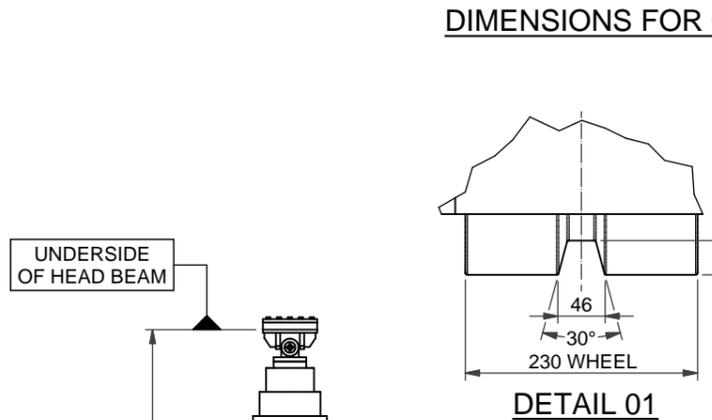
**STAGE 2**  
CAPACITY: 195 Tonnes (EACH UNIT)  
MAX % TIPPING = 51%

**STAGE 1**  
CAPACITY: 300 Tonnes (EACH UNIT)  
MAX % TIPPING = 60%

**STAGE 0**



**DIMENSIONS FOR OPERATION**



**UNIT FOLDED FOR TRANSPORT**

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**NOTES**

**SPECIFICATION FOR DL-TLG1200 TELESCOPIC LIFTING UNIT**

- MAXIMUM SAFE WORKING LOAD (SWL) AT TOP OF TELESCOPIC CYLINDER  
STAGE 1 = 300 TONNES @ 145 BAR WORKING PRESSURE  
STAGE 2 = 195 TONNES @ 145 BAR WORKING PRESSURE  
STAGE 3 = 118 TONNES @ 145 BAR WORKING PRESSURE  
SEE DRAWINGS DL-TLG1200-005-01 AND 02 FOR DETAILS OF LIFTING ARRANGEMENTS AND DUTY CHARTS
- TELESCOPIC CYLINDER WORKING PRESSURE ON RETRACT = 145 BAR

- STATIC TEST LOAD = 1.25 x SWL + MAXIMUM HORIZONTAL LOAD (TESTS CARRIED OUT AT FULL EXTENSION FOR EACH TELESCOPIC CYLINDER STAGE)
- DYNAMIC TEST LOAD = 1.10 x SWL (TESTS CARRIED OUT FOR EACH TELESCOPIC CYLINDER STAGE AND FOR ALL FUNCTIONS)

- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION (SEE OPERATION AND MAINTENANCE MANUAL FOR DETAILS).

- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)

- THE MAXIMUM % TIPPING FIGURES GIVEN FOR STAGES 1, 2 AND 3 ASSUME 5% HORIZONTAL LOAD AT THE ROCKER JOINT PLUS 1% TRANSVERSE SLOPE OF THE TRACK

- MAXIMUM WHEEL LOAD = 78 TONNES

- LIFTING AND LOWERING SPEED OF TELESCOPIC CYLINDER = 0.5 m/minute (FAST) AND 0.1 m/minute (SLOW) - CONSTANT FOR ALL TELESCOPIC CYLINDER STAGES

- LONGITUDINAL MOVEMENT SPEED OF DL-TLG1200 LIFTING UNITS = 3.0 m/minute (FAST) AND 0.5 m/minute (SLOW)

- POWER SUPPLY = 380-420 VOLTS AT 50 Hz OR 440-480 VOLTS AT 60 Hz, 3 PHASE + EARTH
- MAXIMUM POWER CONSUMPTION = 30 kW RUNNING PER DL-TLG1200 LIFTING UNIT

- CONTROL FOR ALL FUNCTIONS = CENTRAL WIRELESS CONTROL CONSOLE OR CONTROL PANEL AT THE CENTRAL CONTROL UNIT OR LOCAL CONTROL PANEL AT EACH DL-TLG1200 LIFTING UNIT

- OPERATING TEMPERATURE = -20 TO +45 °C (SUBJECT TO HYDRAULIC OIL GRADE USED)

- TELESCOPIC CYLINDER FOLDS AS SHOWN SO THAT COMPLETE DL-TLG1200 LIFTING UNIT (WITHOUT BOGIE EXTENSION PIECES) IS SUITABLE FOR TRANSPORT IN A STANDARD SHIPPING CONTAINER

- WEIGHTS:  
BASE UNIT - STEEL FRAME AND PINS = 5,500 kg  
BASE UNIT - DRIVEN BOGIES (4 x 965 kg) = 3,860 kg  
BASE UNIT - OTHER EQUIPMENT = 1,000 kg  
TELESCOPIC CYLINDER = 6,100 kg  
ROCKER JOINT ASSEMBLY = 400 kg  
HYDRAULIC OIL = 1,470 kg  
TOTAL = 18,330 kg

- HYDRAULIC OIL TANK SIZE = 2 x 850 litres = 1,700 litres

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Project  
**DL-TLG1200 TELESCOPIC LIFTING GANTRY**

Drawing Title  
**DL-TLG1200 TELESCOPIC LIFTING UNIT GENERAL ARRANGEMENT AND SPECIFICATION**

Design Eng: PD Checking Eng: JM  
Drawn by: AW Project Eng: SAB

Scales (At A3) AS SHOWN Drawing Status INFORMATION

Original Drawing size: A3 Drawing No. DL-TLG1200-002 Rev. N1

DO NOT SCALE

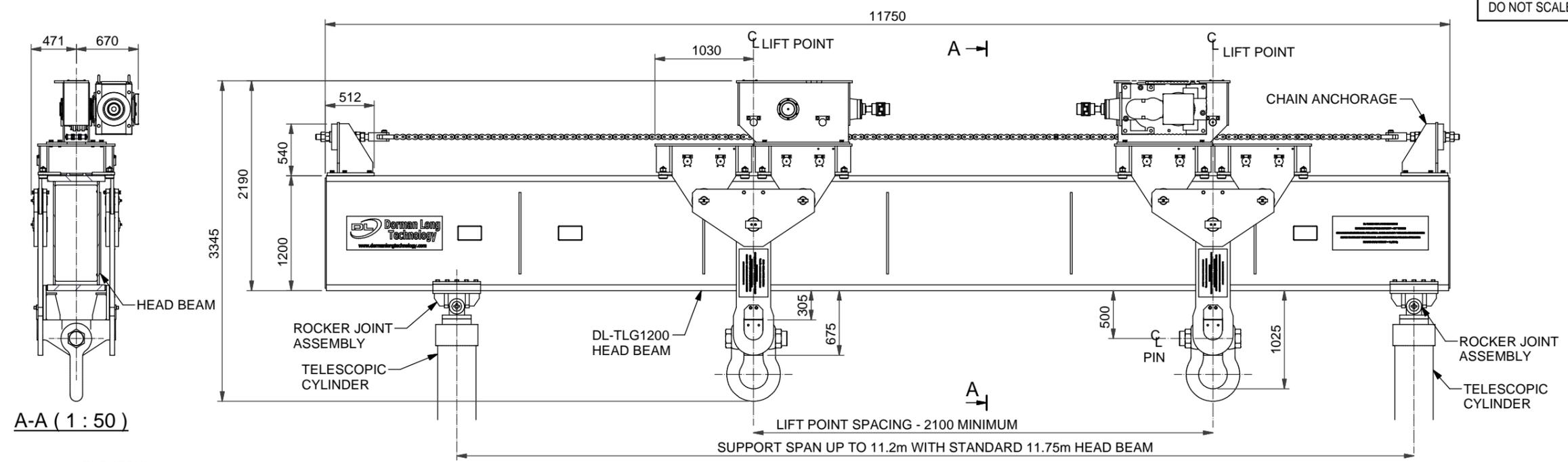
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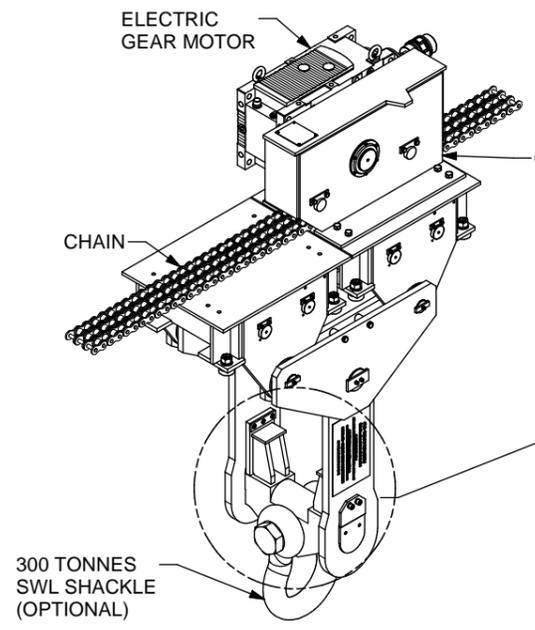
**NOTES**

**SPECIFICATION**  
**DL-TLG1200 HEAD BEAM AND**  
**DL-TLG1200 POWERED TROLLEY**

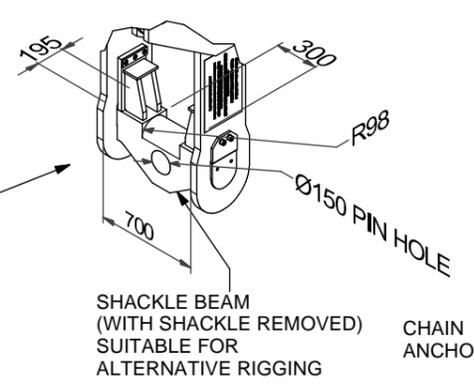
- MAXIMUM SAFE WORKING LOAD (SWL) = 300 TONNES PER LIFT POINT = 577 TONNES PER HEAD BEAM  
 SEE DRAWINGS DL-TLG1200-005-01 AND 02 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/-1%
- TRANSVERSE MOVEMENT SPEED OF DL-TLG300 POWERED TROLLEYS = 0.5 m/minute
- POWER SUPPLY = 380-420 VOLTS AT 50 Hz OR 440-480 VOLTS AT 60 Hz, 3 PHASE + EARTH.
- MAXIMUM POWER CONSUMPTION = 2.2 kW RUNNING PER DL-TLG1200 POWERED TROLLEY
- CONTROL SYSTEM FOR ALL FUNCTIONS = CENTRAL WIRELESS CONTROL CONSOLE OR CONTROL PANEL AT THE CENTRAL CONTROL UNIT OR LOCAL CONTROL PANEL AT EACH DL-TLG1200 LIFTING UNIT
- OPERATING TEMPERATURE = -20 TO +45 °C
- WEIGHTS:-  
 DL-TLG1200 HEAD BEAM = 11,100 kg  
 POWERED TROLLEY = 2x 5,350 kg  
 CHAIN & CHAIN ANCHORAGES = 1,240 kg  
 TOTAL OPERATING WEIGHT = 23,040 kg
- DL-TLG1200 HEAD BEAM AND POWERED TROLLEYS SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS AS SHOWN
- TRANSPORT WEIGHTS:-  
 HEAD BEAM AND UPPER SECTION OF POWERED TROLLEYS = 18,900 kg  
 SHACKLE BEAM HANGERS (INCLUDING TRANSPORT FRAMES) = 2 x 2,260 kg  
 ASSEMBLY SUPPORT STOOLS = 2 x 350 kg



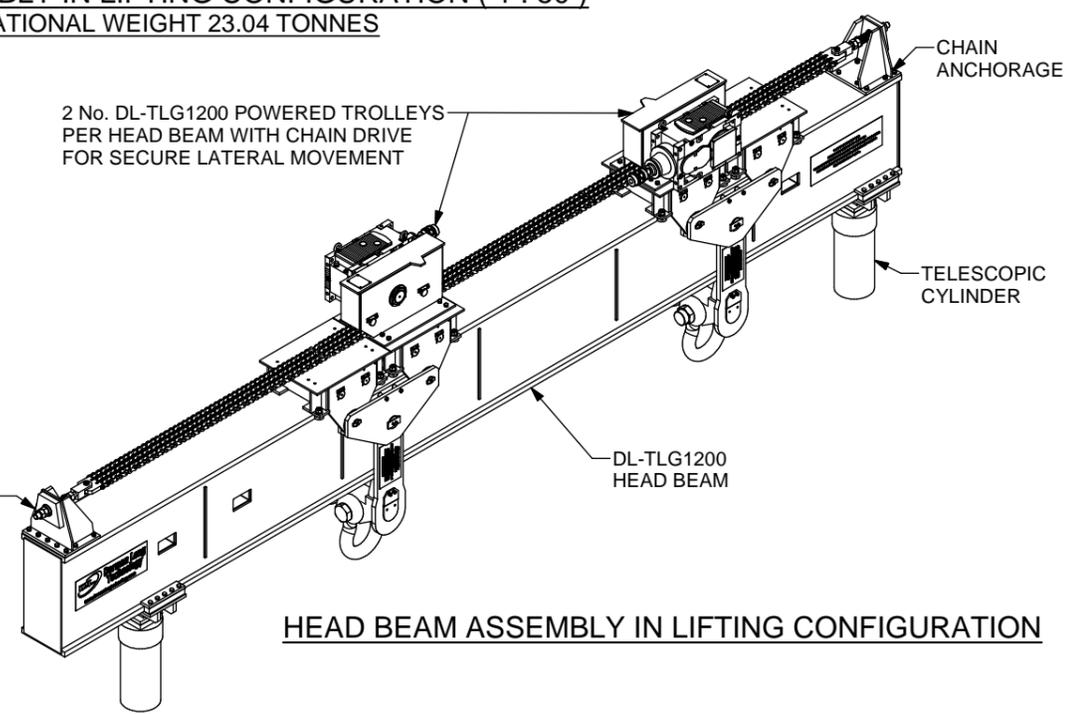
**HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION ( 1 : 50 )**  
 OPERATIONAL WEIGHT 23.04 TONNES



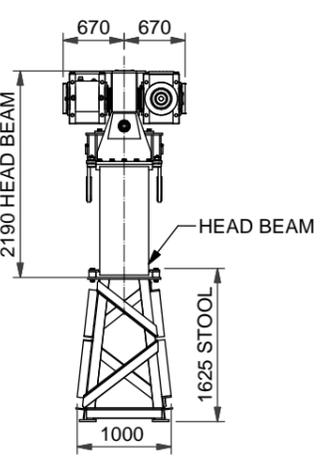
**POWERED TROLLEY**  
 (HEAD BEAM OMITTED FOR CLARITY)



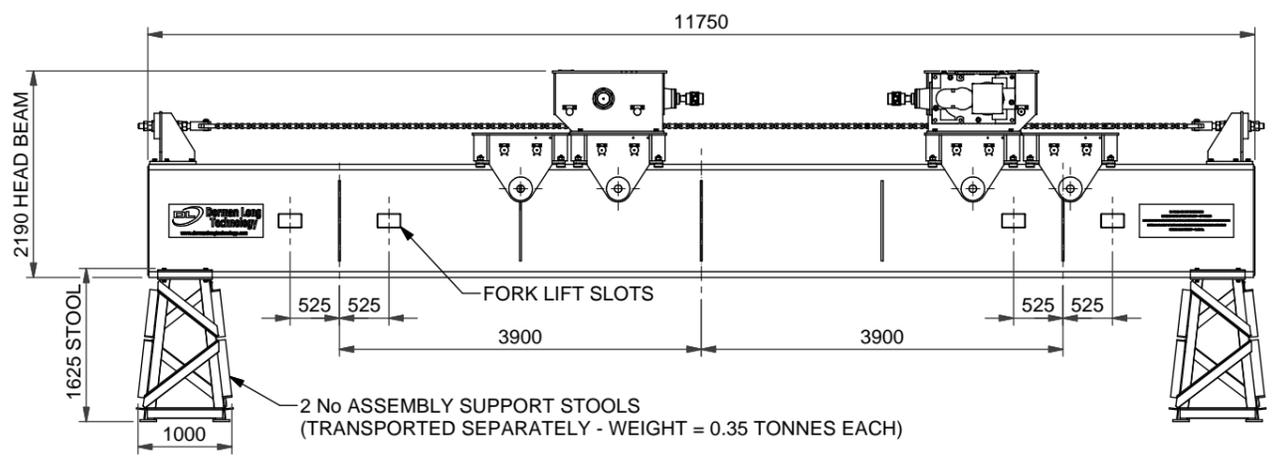
SHACKLE BEAM (WITH SHACKLE REMOVED) SUITABLE FOR ALTERNATIVE RIGGING



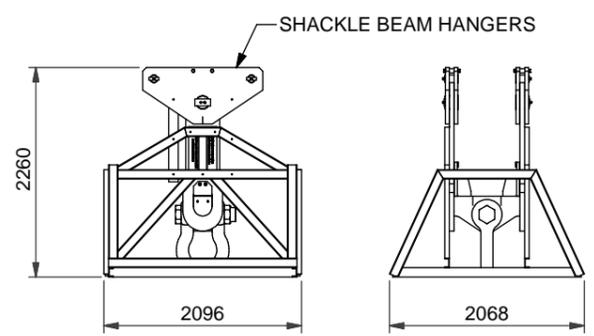
**HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION**



**END ELEVATION**  
 ( 1 : 75 )



**HEAD BEAM ASSEMBLY IN TRANSPORT CONFIGURATION ( 1 : 75 )**  
 TRANSPORT WEIGHT 18.90 TONNES



**SHACKLE BEAM HANGER IN TRANSPORT CONFIGURATION**  
 2 No THUS  
 TRANSPORT WEIGHT = 2.26 TONNES EACH

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Project  
**DL-TLG1200 TELESCOPIC LIFTING GANTRY**

Drawing Title  
**DL-TLG1200 HEAD BEAM AND DL-TLG1200 POWERED TROLLEY GENERAL ARRANGEMENT AND SPECIFICATION**

	Design Eng: JM	Checking Eng: PD
	Drawn by: SG	Project Eng: SAB
Scales (At A3) AS SHOWN	Drawing Status <b>INFORMATION</b>	

Original Drawing size: A3  
 Drawing No. **DL-TLG1200-003-01**  
 Rev. **N1**

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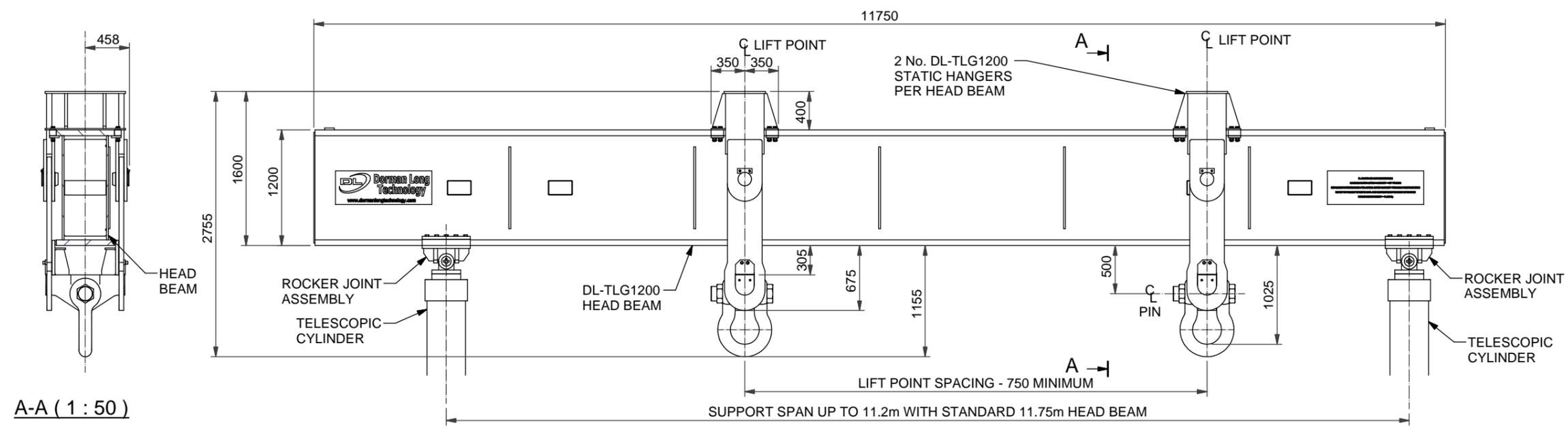
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**NOTES**

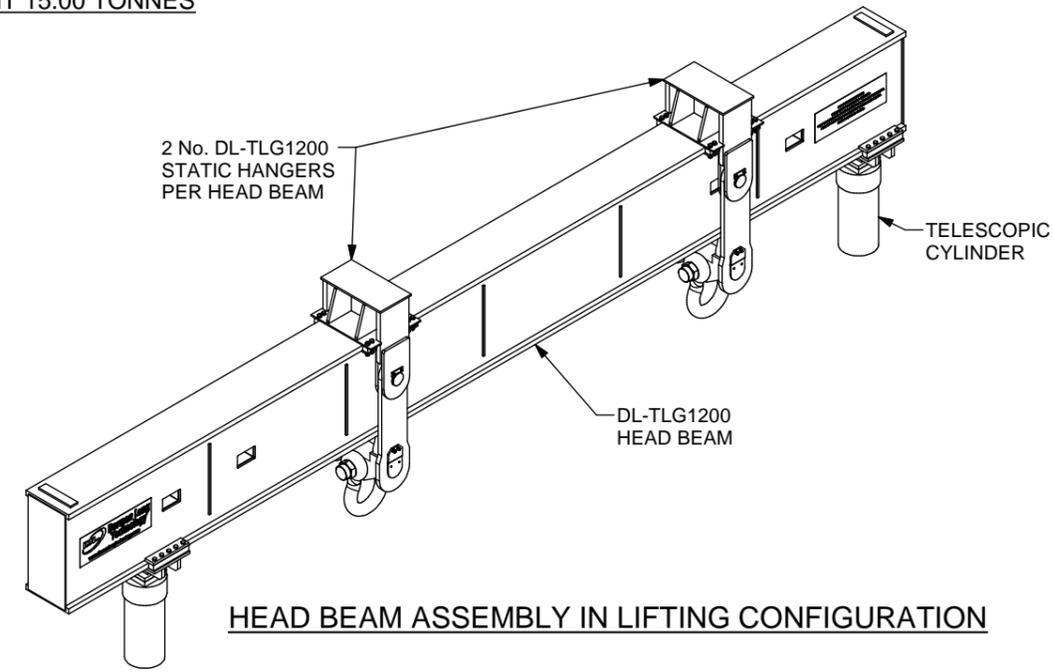
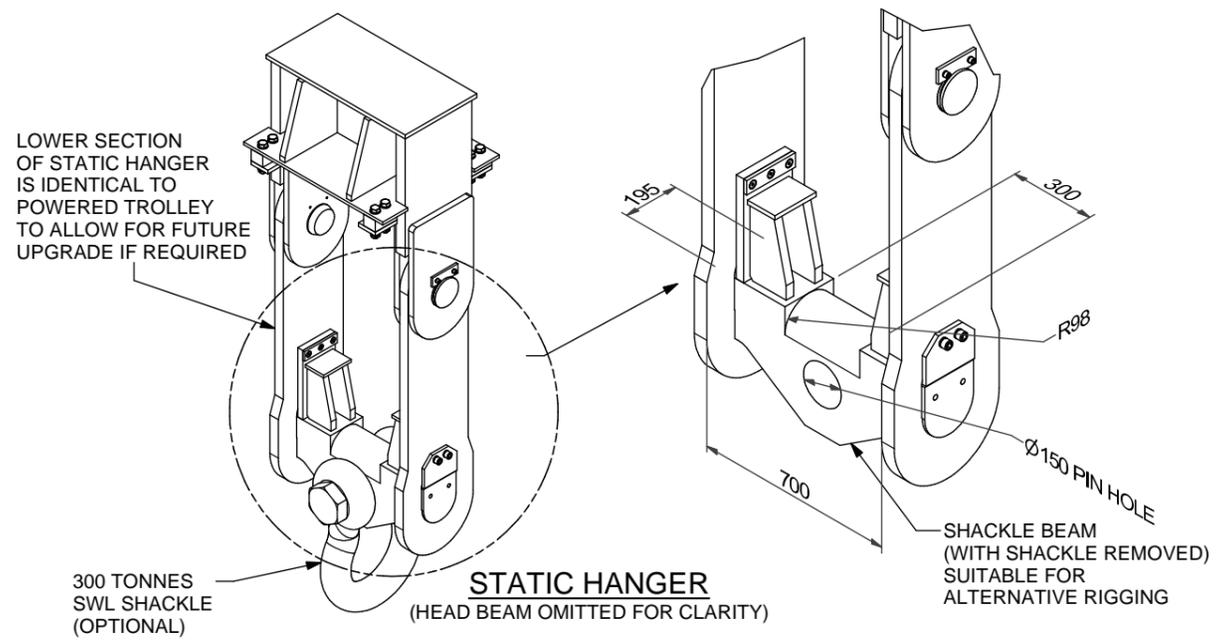
**SPECIFICATION**  
**DL-TLG1200 HEAD BEAM AND**  
**DL-TLG1200 STATIC HANGERS**

- MAXIMUM SAFE WORKING LOAD (SWL) = 300 TONNES PER LIFT POINT = 585 TONNES PER HEAD BEAM SEE DRAWINGS DL-TLG1200-005-01 AND 02 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/-1%
- OPERATING TEMPERATURE = -20 TO +45 °C
- DL-TLG1200 HEAD BEAM SUPPORTED ON 2 No. SUPPORT STOOL ASSEMBLIES AND COMPLETE WITH ALL EQUIPMENT IS SUITABLE FOR TRANSPORT IN A STANDARD 40' SHIPPING CONTAINER.
- WEIGHTS:-  
DL-TLG1200 HEAD BEAM = 11,100 kg  
STATIC HANGERS = 2x 1,950 kg  
SUPPORT STOOL ASSEMBLIES = 2x 250 kg
- TOTAL OPERATING WEIGHT = 15,000 kg  
TOTAL TRANSPORT WEIGHT = 15,500 kg

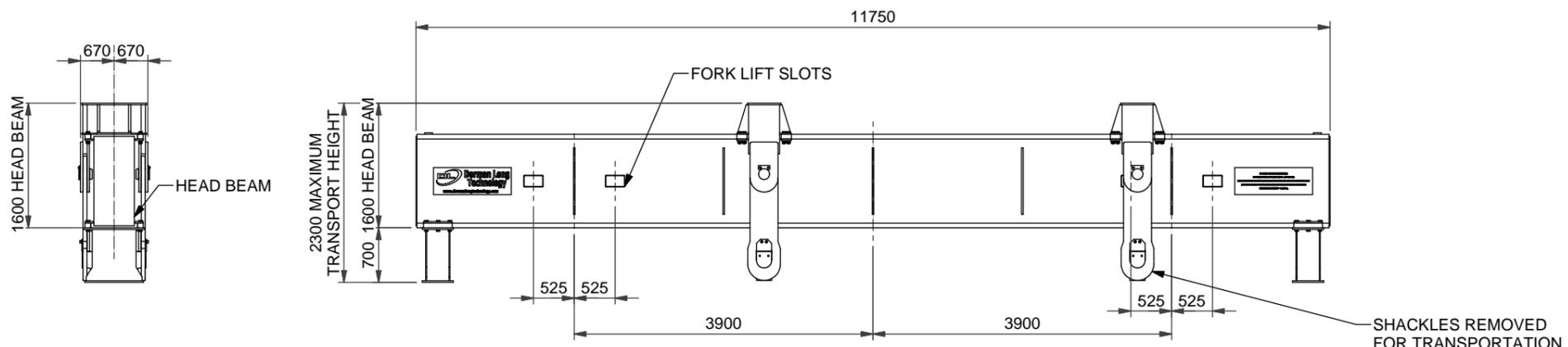


**A-A (1 : 50)**

**HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION ( 1 : 50 )**  
**OPERATIONAL WEIGHT 15.00 TONNES**



**HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION**



**END ELEVATION ( 1 : 75 )**

**HEAD BEAM ASSEMBLY IN TRANSPORT CONFIGURATION ( 1 : 75 )**  
**TRANSPORT WEIGHT 15.50 TONNES (INCLUDING SHACKLES)**

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Project  
**DL-TLG1200 TELESCOPIC LIFTING GANTRY**

Drawing Title  
**DL-TLG1200 HEAD BEAM AND DL-TLG1200 STATIC HANGERS**

	Design Eng: JM	Checking Eng: PD
	Drawn by: SG	Project Eng: SAB
Scales (At A3) AS SHOWN	<b>INFORMATION</b>	
Original Drawing size: A3		

Drawing No. **DL-TLG1200-003-02** Rev. **N1**

DO NOT SCALE

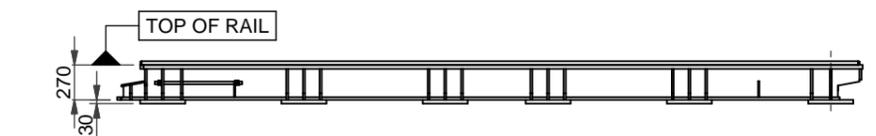
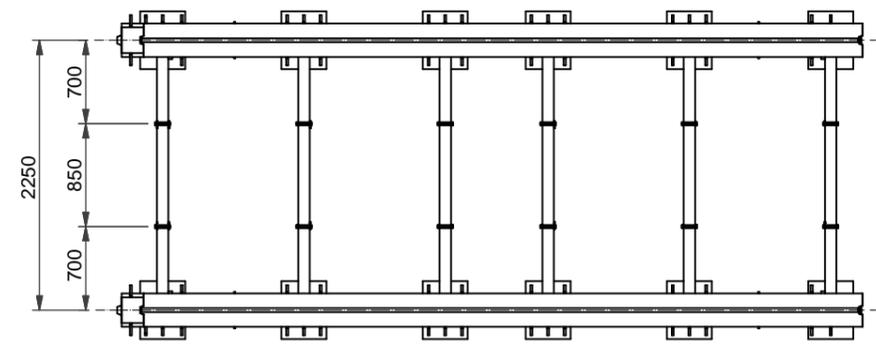
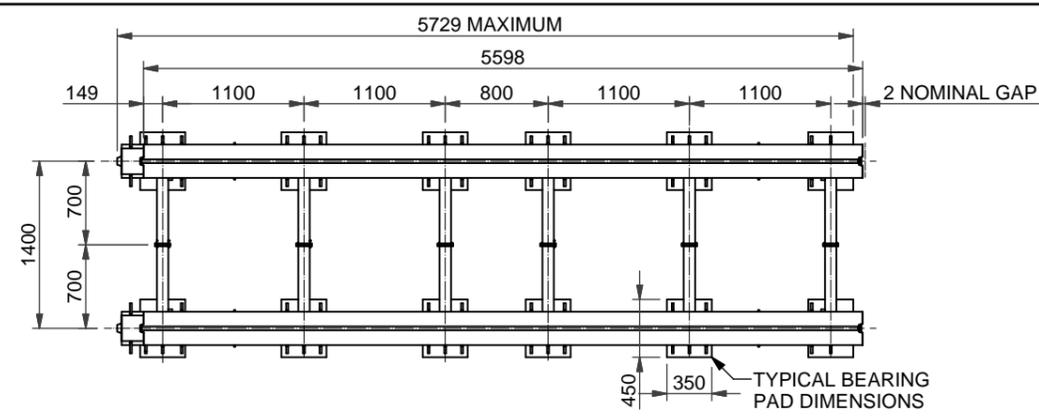
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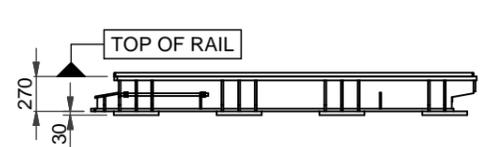
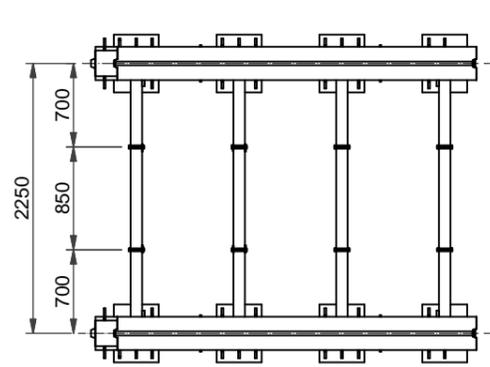
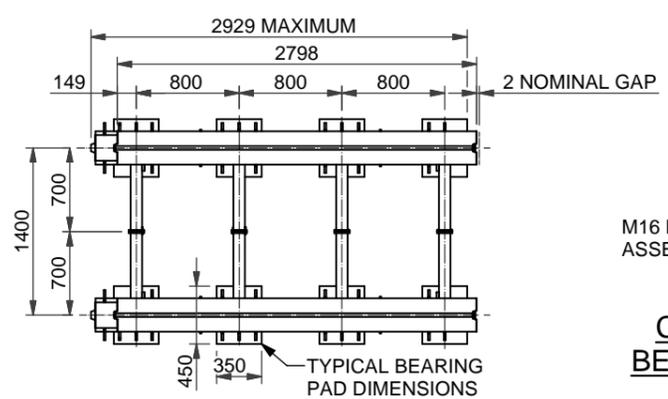
**NOTES**

**SPECIFICATION FOR DL-TLG1200 STANDARD TRACK SECTIONS**

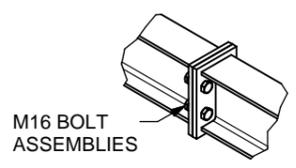
- STANDARD TRACK SECTIONS SUPPLIED IN LENGTHS GIVING EFFECTIVE TRACK LENGTHS OF 5.6m AND 2.8m (OVERALL LENGTHS OF 5,804mm AND 3,004mm)
- STANDARD TRACK SECTIONS SUPPLIED WITH RAILS AT 1.4m CENTRES AND WITH INSERT PIECES TO INCREASE RAILS TO 2.25m CENTRES
- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
- SEE TABLE FOR MAXIMUM WHEEL LOADS AND BEARING PAD LOADS AND PRESSURES
- OPERATING TEMPERATURE = -20 TO +45°C
- TRACK SECTION COMPONENTS ARE SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS
- WEIGHTS  
 5.6m LONG x 1.4m RAIL CENTRES = 2,900 kg  
 5.6m LONG x 2.25m RAIL CENTRES = 3,020 kg  
 2.8m LONG x 1.4m RAIL CENTRES = 1,590 kg  
 2.8m LONG x 2.25m RAIL CENTRES = 1,660 kg



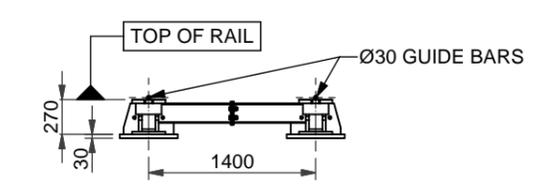
**5.6m STANDARD TRACK SECTION - 1.4m AND 2.25m RAIL CENTRES**



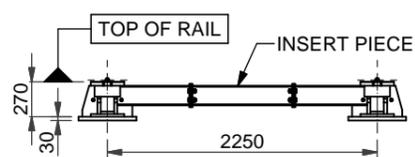
**2.8m STANDARD TRACK SECTION 1.4m AND 2.25m RAIL CENTRES**



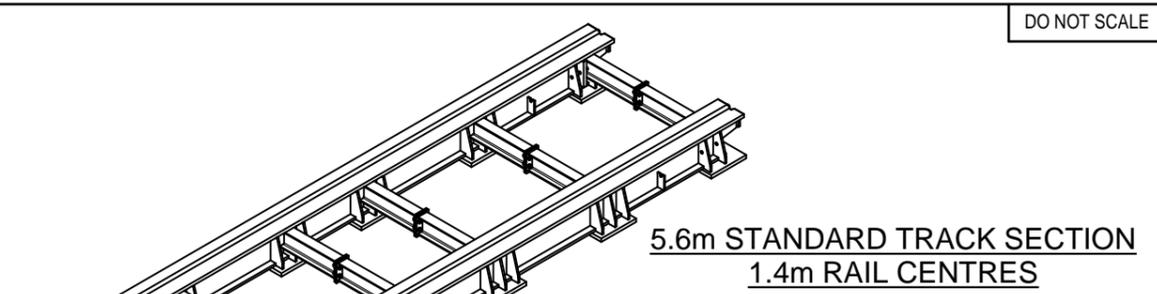
**CONNECTION DETAILS BETWEEN RAIL SECTIONS AND INSERT PIECES**



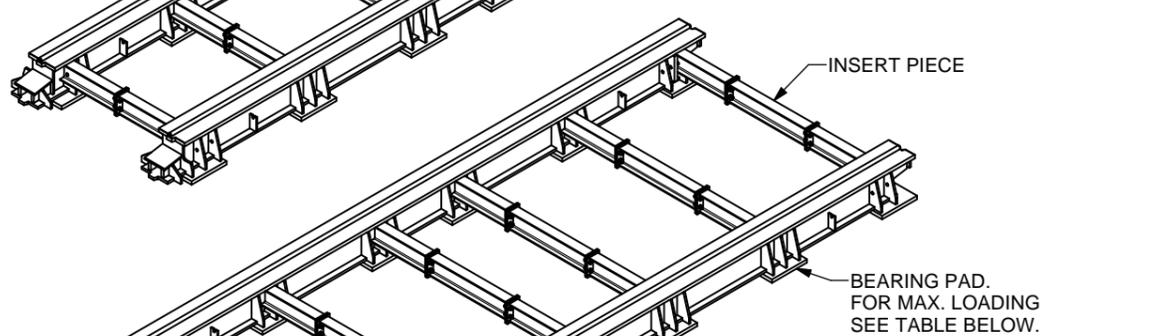
**TYPICAL END VIEW 1.4m RAIL CENTRES**



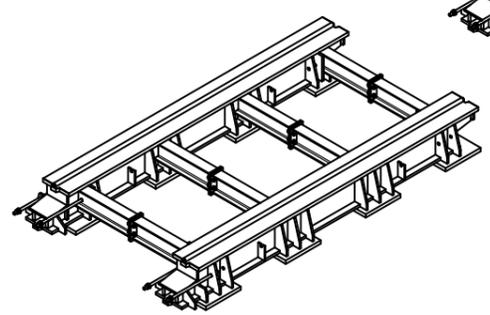
**TYPICAL END VIEW 2.25m RAIL CENTRES**



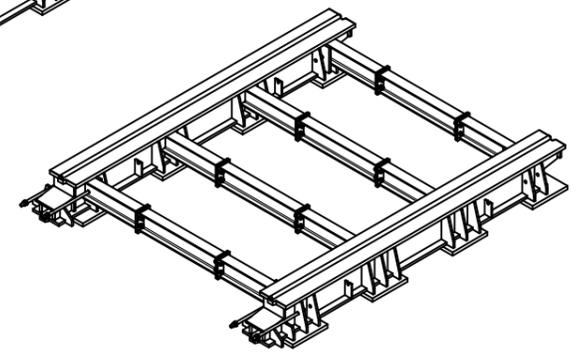
**5.6m STANDARD TRACK SECTION 1.4m RAIL CENTRES**



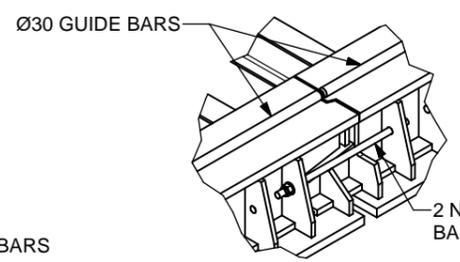
**5.6m STANDARD TRACK SECTION 2.25m RAIL CENTRES**



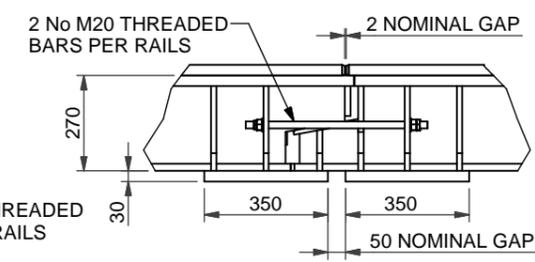
**2.8m STANDARD TRACK SECTION 1.4m RAIL CENTRES**



**2.8m STANDARD TRACK SECTION 2.25m RAIL CENTRES**



**CONNECTION DETAIL BETWEEN RAIL SECTIONS**



**CONNECTION DETAIL BETWEEN RAIL SECTIONS SIDE ELEVATION**

THE MAXIMUM WHEEL LOADS AND BEARING PAD LOADS AND PRESSURES TABULATED BELOW ASSUME 5% HORIZONTAL LOAD PLUS 1% SLOPE OF THE TRACK, BOTH AT 45 DEGREES ORIENTATION. THE PROJECT SPECIFIC VALUES WILL DEPEND ON THE ACTUAL LOADS TO BE APPLIED TO THE SYSTEM. SEE OPERATION AND MAINTENANCE MANUAL FOR FURTHER INFORMATION.

DL-TLG1200 Standard Track - Maximum Loads			
	Telescopic Cylinder Stage 1 1.4m Rail Centres	Telescopic Cylinder Stage 2 2.25m Rail Centres	Telescopic Cylinder Stage 3 2.25m Rail Centres
Maximum Wheel Load on Track	78 Tonnes	55 Tonnes	38 Tonnes
Maximum Load on each Bearing Pad	144 Tonnes	100 Tonnes	71 Tonnes
Maximum Average Bearing Pressure under each Bearing Pad	9.0 MPa	6.3 MPa	4.4 MPa
Maximum Peak Bearing Pressure under each Bearing Pad	11.5 MPa	9.4 MPa	7.6 MPa

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Project  
 DL-TLG1200  
 TELESCOPIC LIFTING GANTRY

Drawing Title  
 DL-TLG1200 STANDARD TRACK SECTIONS  
 GENERAL ARRANGEMENT AND SPECIFICATION

	Design Eng: PD	Checking Eng: JM
	Drawn by: AW	Project Eng: SAB
Scales (At A3) AS SHOWN	<b>INFORMATION</b>	
Original Drawing size: A3	Drawing No.	Rev.
	<b>DL-TLG1200-004</b>	<b>N1</b>

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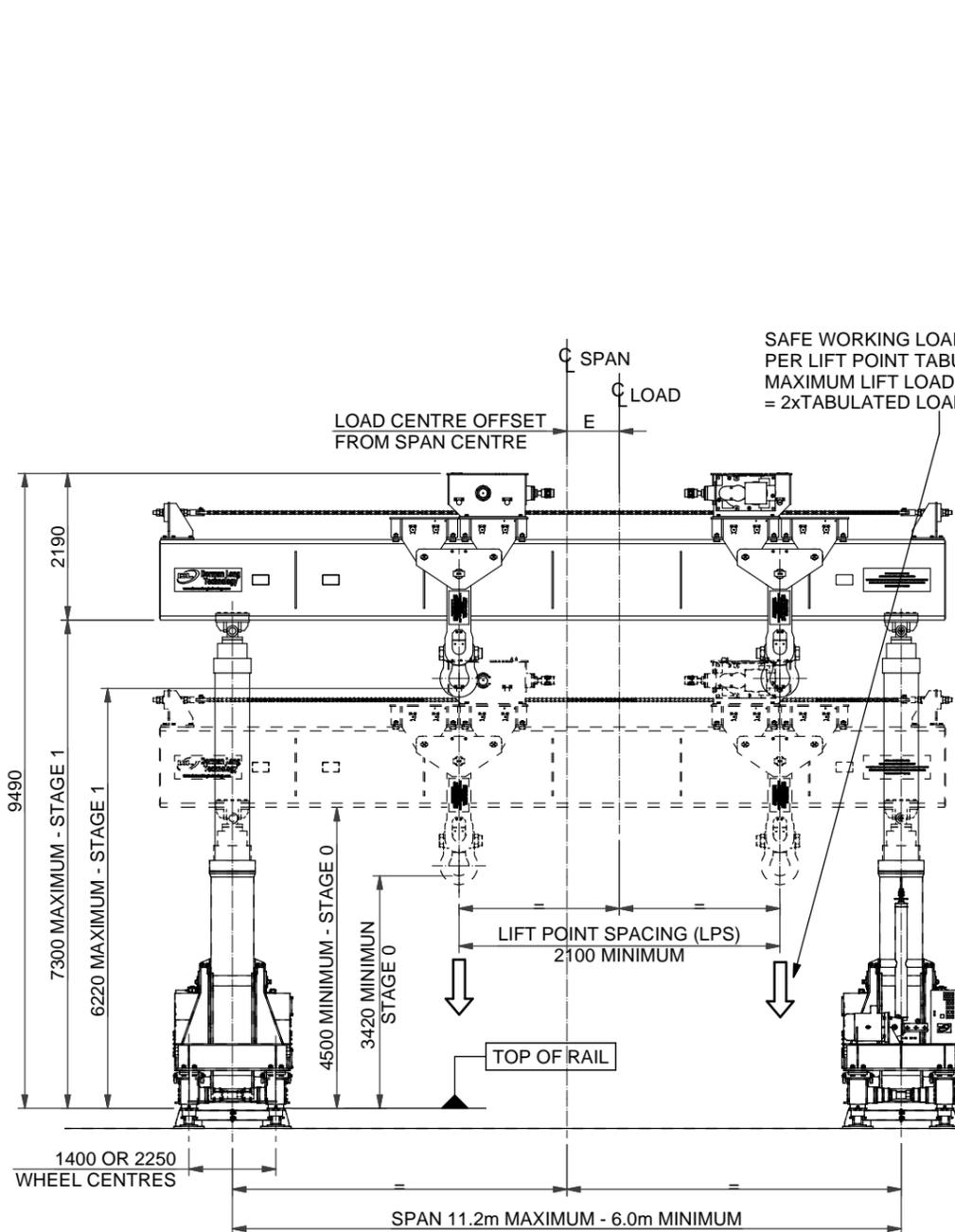
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NOTES

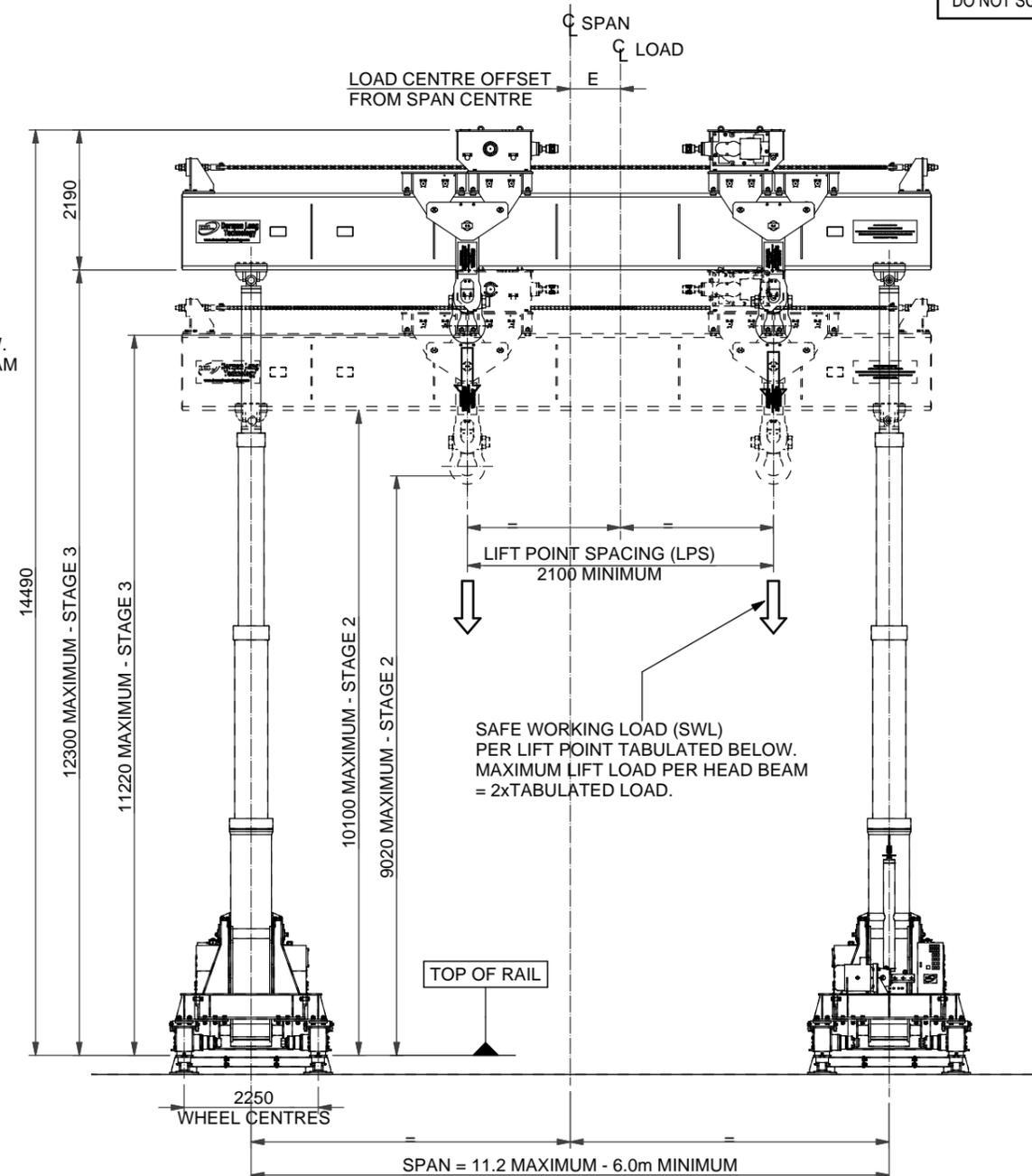
DUTY CHARTS ASSUME THE FOLLOWING:-

- STANDARD DL-TLG1200 COMPONENTS WITH DL-TLG1200 HEAD BEAM
- 2 No. LIFT POINTS EQUALLY LOADED PER HEAD BEAM
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION
- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/- 1%
- DL-TLG1200 STANDARD TRACK SECTIONS USED WITH 1.4m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGE 1 AND 2.25m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGES 2 AND 3
- TABULATED LOADS APPLIED TO SHACKLE OR, IF SHACKLE NOT USED, TO SHACKLE BEAM

IF THE DL-TLG1200 TELESCOPIC LIFTING GANTRY IS TO BE USED IN A CONFIGURATION NOT SHOWN ON THIS DRAWING, CONTACT DLT ENGINEERING FOR SPECIFIC SAFE WORKING LOADS AND ANY SPECIAL CONDITIONS THAT MAY APPLY



STAGE 1 : HEAD BEAM IN OPERATIONAL RANGE FROM LEVEL 4500 TO LEVEL 7300



STAGE 2 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 10100  
STAGE 3 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 12300

SPAN 11.20m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
Stage	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE			
		0.00	1.00	2.00	3.00
1	2.10	203.4	203.0	211.7	186.6
		184.0	155.4	134.4	118.2
		107.0	90.1	77.6	68.0
2	3.00	227.0	221.9	211.7	
		184.0	155.4	134.4	
		107.0	90.1	77.6	
3	4.00	260.0	244.5	211.7	
		184.0	155.4	134.4	
		107.0	90.1	77.6	
1	5.00	289.0	244.5	211.7	
		184.0	155.4	134.4	
		107.0	90.1	77.6	
2	6.00	289.0	244.5		
		184.0	155.4		
		107.0	90.1		
3	7.00	289.0	244.5		
		184.0	155.4		
		107.0	90.1		
1	8.00	289.0			
		184.0			
		107.0			

SPAN 10.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
Stage	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE			
		0.00	1.00	2.00	3.00
1	2.10	236.0	235.4	205.1	178.9
		184.0	152.6	130.1	113.2
		107.0	88.4	75.1	65.1
2	3.00	267.7	240.1	205.1	178.9
		184.0	152.6	130.1	113.2
		107.0	88.4	75.1	65.1
3	4.00	289.0	240.1	205.1	
		184.0	152.6	130.1	
		107.0	88.4	75.1	
1	5.00	289.0	240.1	205.1	
		184.0	152.6	130.1	
		107.0	88.4	75.1	
2	6.00	289.0	240.1		
		184.0	152.6		
		107.0	88.4		
3	7.00	289.0	240.1		
		184.0	152.6		
		107.0	88.4		
1	8.00	289.0			
		184.0			
		107.0			

SPAN 9.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
Stage	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE			
		0.00	1.00	2.00	3.00
1	2.10	271.8	235.6	198.6	171.5
		184.0	149.7	125.9	108.5
		107.0	86.7	72.6	62.3
2	3.00	289.0	235.6	198.6	
		184.0	149.7	125.9	
		107.0	86.7	72.6	
3	4.00	289.0	235.6	198.6	
		184.0	149.7	125.9	
		107.0	86.7	72.6	
1	5.00	289.0	235.6	198.6	
		184.0	149.7	125.9	
		107.0	86.7	72.6	
2	6.00	289.0	235.6	198.6	
		184.0	149.7	125.9	
		107.0	86.7	72.6	
3	7.00	289.0	235.6	198.6	
		184.0	149.7	125.9	
		107.0	86.7	72.6	
1	8.00	289.0			
		184.0			
		107.0			

SPAN 8.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]			
Stage	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE	
		0.00	1.00
1	2.10	289.0	230.3
		184.0	146.3
		107.0	84.7
2	3.00	289.0	230.3
		184.0	146.3
		107.0	84.7
3	4.00	289.0	230.3
		184.0	146.3
		107.0	84.7
1	5.00	289.0	230.3
		184.0	146.3
		107.0	84.7
2	6.00	289.0	230.3
		184.0	146.3
		107.0	84.7
3	7.00	289.0	230.3
		184.0	146.3
		107.0	84.7

SPAN 7.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]			
Stage	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE	
		0.00	1.00
1	2.10	289.0	223.8
		184.0	142.1
		107.0	82.2
2	3.00	289.0	223.8
		184.0	142.1
		107.0	82.2
3	4.00	289.0	223.8
		184.0	142.1
		107.0	82.2
1	5.00	289.0	223.8
		184.0	142.1
		107.0	82.2
2	6.00	289.0	223.8
		184.0	142.1
		107.0	82.2
3	7.00	289.0	223.8
		184.0	142.1
		107.0	82.2

SPAN 6.00m SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]			
Stage	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE	
		0.00	1.00
1	2.10	289.0	215.6
		184.0	136.8
		107.0	79.1
2	3.00	289.0	215.6
		184.0	136.8
		107.0	79.1
3	4.00	289.0	215.6
		184.0	136.8
		107.0	79.1
1	5.00	289.0	215.6
		184.0	136.8
		107.0	79.1

INTERPOLATION BETWEEN TABULATED VALUES PERMISSIBLE  
SEE ALSO OPERATION AND MAINTENANCE MANUAL

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Project  
DL-TLG1200  
TELESCOPIC LIFTING GANTRY

Drawing Title  
LIFTING ARRANGEMENT AND DUTY CHARTS  
2 No. LIFT POINTS LOADED PER HEAD BEAM

Design Eng: JM Checking Eng: PD  
Drawn by: SG Project Eng: SAB

Original Drawing size: A3  
Drawing Status  
INFORMATION

Drawing No. DL-TLG1200-005-01 Rev. N1

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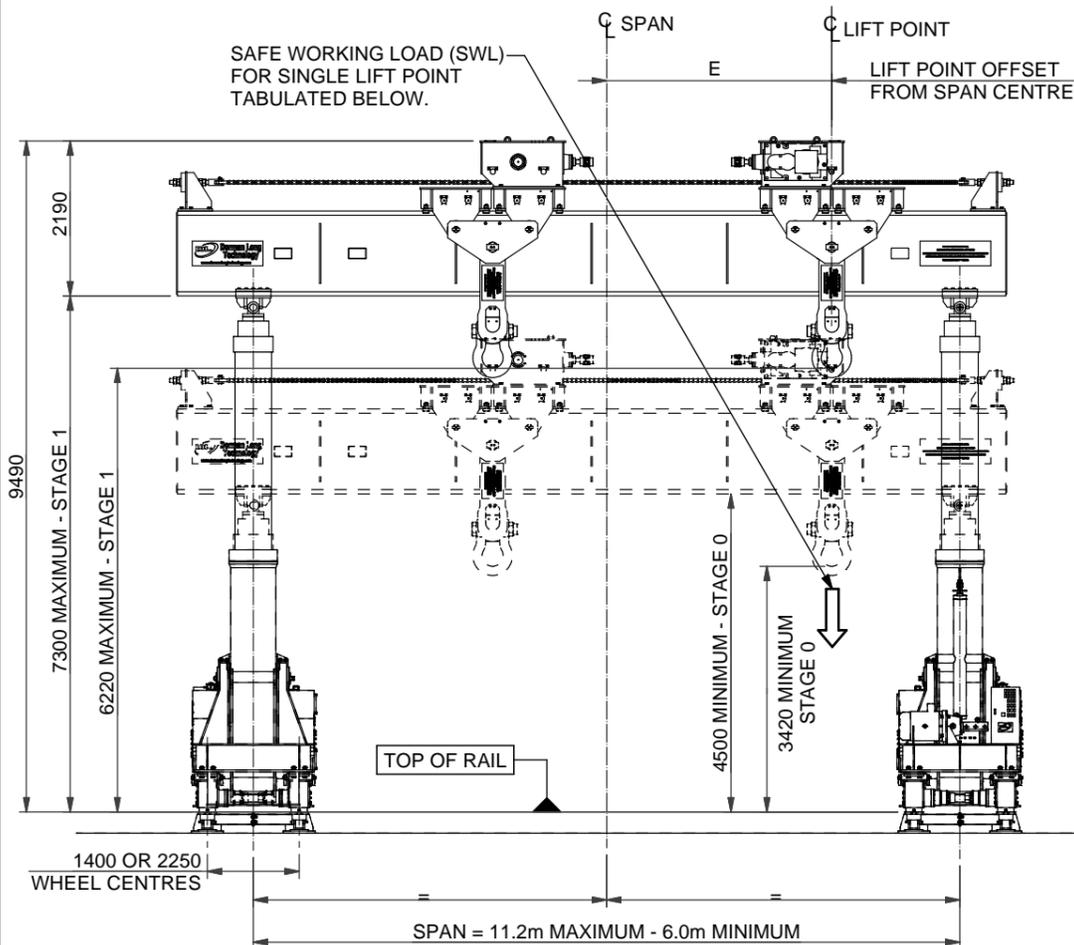
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**NOTES**

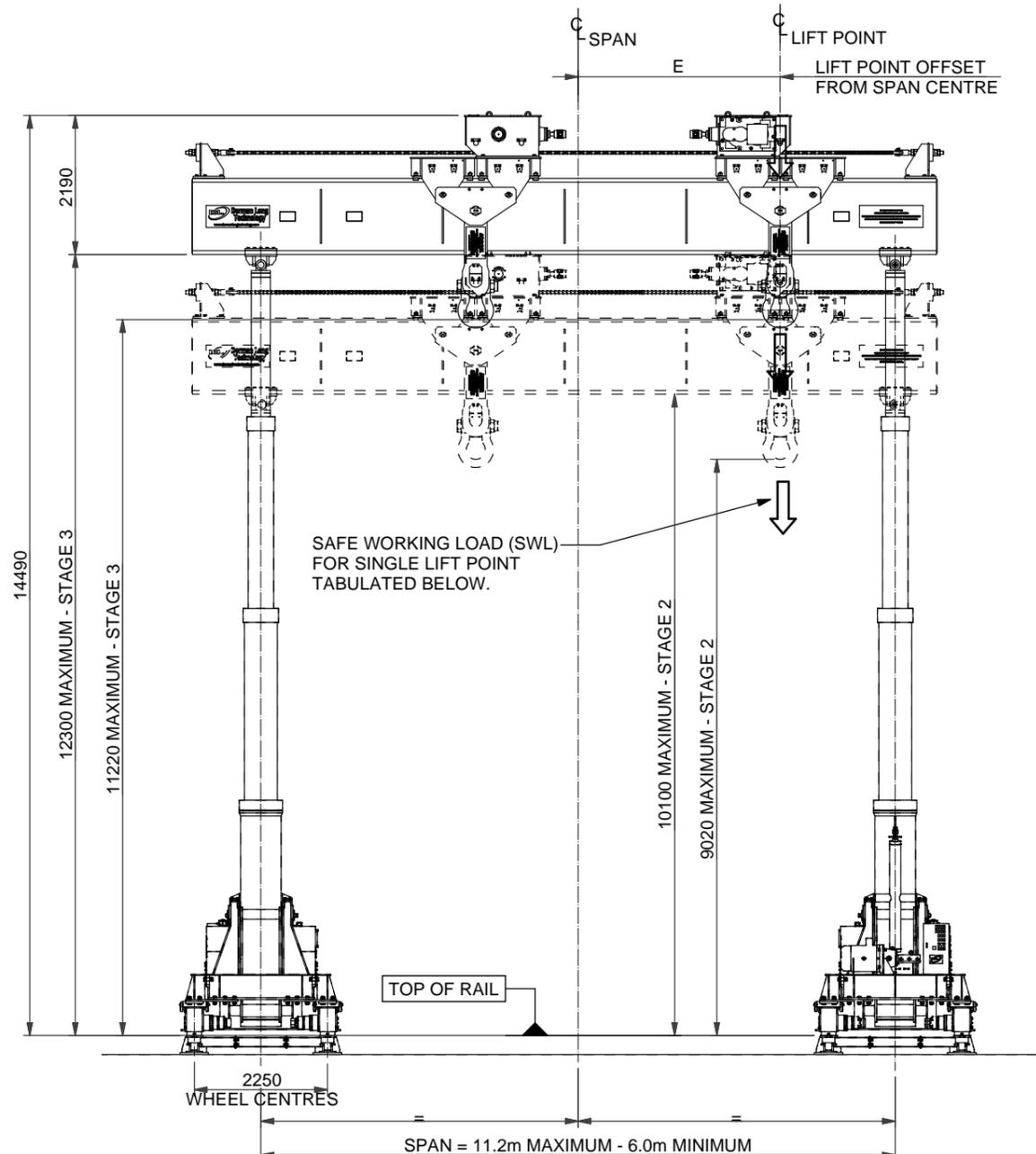
DUTY CHARTS ASSUME THE FOLLOWING:-

- STANDARD DL-TLG1200 COMPONENTS WITH DL-TLG1200 HEAD BEAM
- 1 No. LIFT POINT LOADED PER HEAD BEAM
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION
- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/- 1%
- DL-TLG1200 STANDARD TRACK SECTIONS USED WITH 1.4m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGE 1 AND 2.25m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGES 2 AND 3
- TABULATED LOADS APPLIED TO SHACKLE OR, IF SHACKLE NOT USED, TO SHACKLE BEAM

IF THE DL-TLG1200 TELESCOPIC LIFTING GANTRY IS TO BE USED IN A CONFIGURATION NOT SHOWN ON THIS DRAWING, CONTACT DLT ENGINEERING FOR SPECIFIC SAFE WORKING LOADS AND ANY SPECIAL CONDITIONS THAT MAY APPLY.



**STAGE 1 : HEAD BEAM IN OPERATIONAL RANGE FROM LEVEL 4500 TO LEVEL 7300**



**STAGE 2 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 10100  
STAGE 3 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 12300**

SPAN 11.20m					
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED					
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
1	300.0	300.0	300.0	300.0	300.0
2	300.0	300.0	267.4	240.3	214.8
3	210.6	178.0	153.9	140.0	124.9

SPAN 10.00m					
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED					
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
1	300.0	300.0	300.0	300.0	300.0
2	300.0	300.0	258.8	230.7	204.5
3	210.3	174.4	148.8	134.4	118.9

SPAN 9.00m					
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED					
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
1	300.0	300.0	300.0	300.0	300.0
2	300.0	296.8	250.4	221.5	194.9
3	209.9	170.8	143.8	129.1	113.3

SPAN 8.00m				
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED				
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE			
	0.00	1.00	2.00	3.00
1	300.0	300.0	300.0	300.0
2	300.0	290.2	246.6	210.7
3	209.9	167.0	143.9	122.7

SPAN 7.00m				
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED				
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE			
	0.00	1.00	2.00	3.00
1	300.0	300.0	300.0	300.0
2	300.0	282.1	235.1	198.2
3	210.0	162.3	137.1	115.3

SPAN 6.00m				
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES] SINGLE LIFT POINT LOADED				
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE			
	0.00	1.00	2.00	
1	300.0	300.0	300.0	
2	300.0	277.9	221.3	
3	210.1	162.4	128.9	

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Project  
DL-TLG1200  
TELESCOPIC LIFTING GANTRY

Drawing Title  
LIFTING ARRANGEMENT AND DUTY CHARTS  
SINGLE LIFT POINT LOADED PER HEAD BEAM

Design Eng: JM Checking Eng: PD  
Drawn by: SG Project Eng: SAB

Scales (At A3) AS SHOWN  
Drawing Status  
Original Drawing size: A3

Drawing No. **DL-TLG1200-005-02** Rev. **N1**